

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1012171

Luminaire Tested: S123RDIP-B1000D1195UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012171
REPORT IS A COMBINATION OF REPORTS P992796 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D1195UB50-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

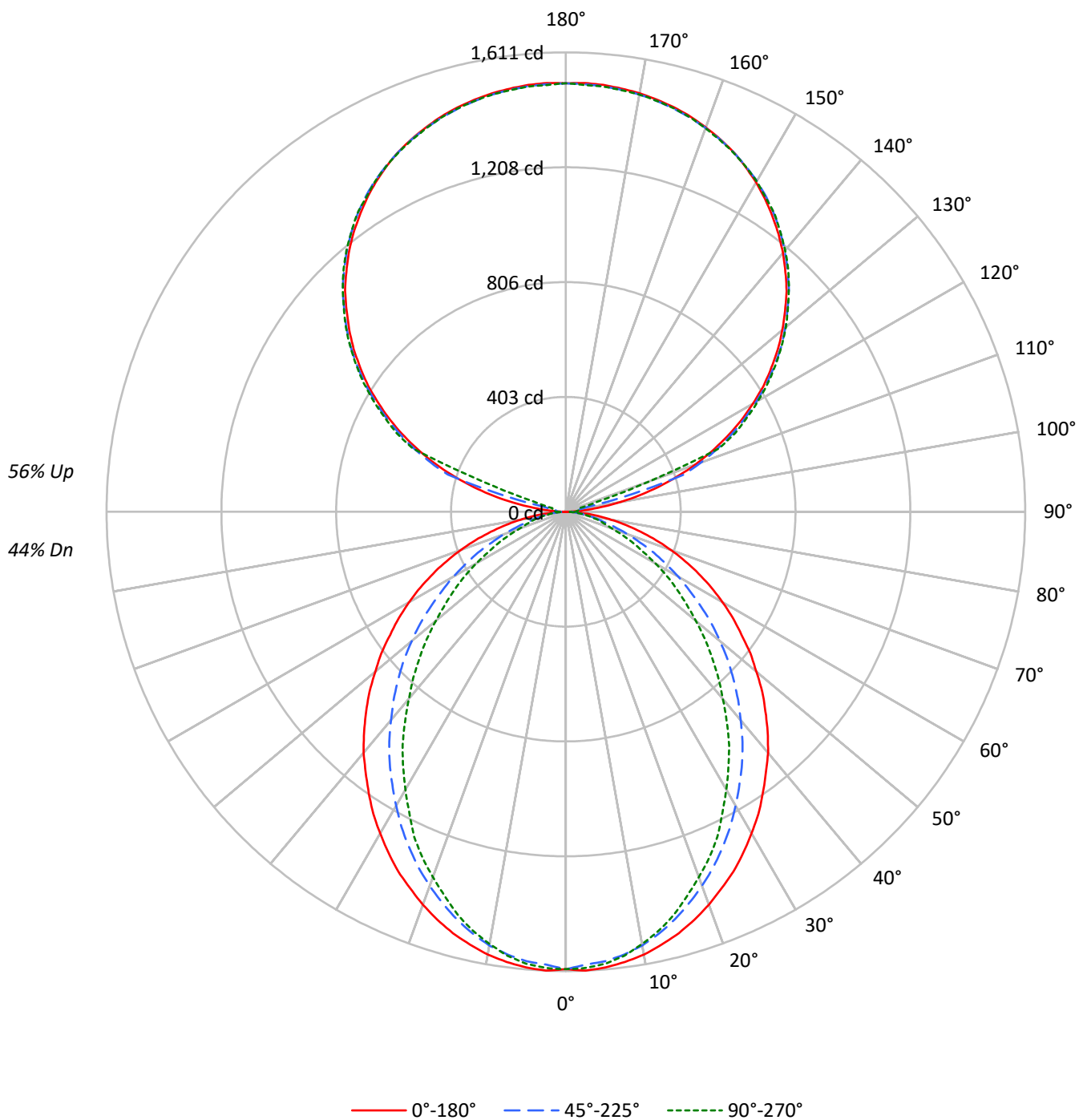
Lumens per Lamp: N/A
Luminaire Lumens: 8208.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	85	88	85	82	79	71	68	66	57	56	55	45	44	43
2	88	81	75	70	81	75	69	65	62	59	55	51	48	46	40	39	37
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	21	22	19	17
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	16
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17266	17266	17266
5°	17295	16656	16611
10°	17159	16030	15714
15°	16936	15255	14731
20°	16643	14414	13633
25°	16343	13539	12593
30°	15956	12608	11363
35°	15558	11694	10244
40°	15183	10701	9006
45°	14704	9730	7894
50°	14175	8694	6743
55°	13626	7584	5687
60°	13101	6446	4616
65°	12423	5280	3603
70°	11570	3992	2574
75°	10343	2703	2040
80°	8827	1880	1432
85°	6628	1014	749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14704 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	1.8
10°-20°	419.5	5.1
20°-30°	604.0	7.4
30°-40°	680.2	8.3
40°-50°	650.6	7.9
50°-60°	532.6	6.5
60°-70°	359.1	4.4
70°-80°	180.1	2.2
80°-90°	50.1	0.6
90°-100°	53.0	0.6
100°-110°	256.2	3.1
110°-120°	627.8	7.6
120°-130°	797.0	9.7
130°-140°	851.4	10.4
140°-150°	796.2	9.7
150°-160°	642.2	7.8
160°-170°	414.4	5.0
170°-180°	142.8	1.7
0°-30°	1174.3	14.3
0°-40°	1854.5	22.6
0°-60°	3037.7	37.0
0°-90°	3627.0	44.2
90°-120°	937.0	11.4
90°-150°	3381.6	41.2
90°-180°	4581.0	55.8
0°-180°	8208.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1582	1594	1591	152
15°	1530	1516	1479	1473	1464	431
25°	1392	1360	1300	1272	1258	640
35°	1205	1158	1077	1021	998	754
45°	990	932	831	757	726	764
55°	752	688	578	502	476	674
65°	514	442	341	277	263	509
75°	272	210	138	125	122	290
85°	69	40	36	34	34	76
90°	1	12	27	31	34	8
95°	68	22	35	42	42	81
105°	333	345	244	47	49	353
115°	624	631	641	652	656	616
125°	880	889	893	895	898	786
135°	1095	1102	1106	1110	1106	843
145°	1264	1272	1274	1276	1276	791
155°	1392	1390	1391	1397	1390	641
165°	1468	1465	1464	1472	1465	415
175°	1503	1497	1498	1506	1497	143
180°	1503	1503	1503	1503	1503	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1610.6	1605.4	1589.8	1604.1	1601.5
5°	1604.1	1597.6	1582.0	1593.7	1591.1
7.5°	1592.4	1585.9	1566.4	1574.2	1570.3
10°	1576.8	1567.7	1544.3	1545.6	1539.1
12.5°	1554.7	1544.3	1514.4	1513.1	1505.2
15°	1530.0	1515.7	1479.2	1472.7	1463.6
17.5°	1500.0	1484.4	1438.9	1425.9	1412.9
20°	1466.2	1445.4	1396.0	1379.1	1363.4
22.5°	1428.5	1403.8	1350.4	1328.3	1314.0
25°	1392.1	1359.5	1299.7	1272.4	1258.1
27.5°	1347.8	1312.7	1247.7	1211.2	1189.1
30°	1302.3	1263.3	1190.4	1146.2	1125.4
32.5°	1256.8	1211.2	1133.2	1083.7	1061.6
35°	1204.7	1157.9	1077.2	1021.3	997.9
37.5°	1152.7	1101.9	1017.4	954.9	926.3
40°	1103.2	1046.0	953.6	886.0	856.1
42.5°	1047.3	990.1	893.8	818.3	792.3
45°	990.1	931.5	831.3	757.2	726.0
47.5°	934.1	869.1	770.2	689.5	662.2
50°	871.7	810.5	705.1	624.5	594.6
52.5°	815.7	748.1	644.0	559.4	533.4
55°	752.0	688.2	577.6	502.2	476.2
57.5°	694.7	625.8	513.9	442.3	420.2
60°	634.9	563.3	455.3	385.1	363.0
62.5°	575.0	503.5	395.5	330.5	307.0
65°	513.9	442.3	340.9	277.1	262.8
67.5°	452.7	379.9	281.0	232.9	217.3
70°	392.9	322.6	231.6	186.0	171.7
72.5°	333.1	264.1	183.4	148.3	144.4
75°	271.9	209.5	137.9	124.9	122.3
77.5°	216.0	158.7	108.0	100.2	97.6
80°	162.6	109.3	82.0	78.1	75.5
82.5°	111.9	67.7	58.5	54.6	54.6
85°	69.0	40.3	36.4	33.8	33.8
87.5°	31.2	16.9	16.9	15.6	14.3
90°	1.1	12.3	26.8	31.3	33.5
92.5°	25.7	19.0	29.0	36.8	38.0
95°	68.1	22.3	34.6	42.4	42.4
97.5°	123.9	92.7	35.7	44.7	45.8
100°	188.7	211.0	36.8	45.8	46.9
102.5°	262.4	276.9	82.6	45.8	48.0
105°	332.7	345.0	244.5	46.9	49.1
107.5°	407.5	417.5	434.3	262.4	116.1
110°	482.3	491.2	503.5	466.7	307.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	553.7	561.5	573.8	583.9	581.6
115°	624.1	630.8	640.8	652.0	656.4
117.5°	693.3	701.1	706.7	715.6	716.7
120°	756.9	767.0	770.3	779.2	779.2
122.5°	821.7	829.5	833.9	839.5	840.6
125°	879.7	888.6	893.1	895.3	897.6
127.5°	937.8	946.7	952.3	955.6	953.4
130°	991.4	1000.3	1004.8	1009.2	1007.0
132.5°	1042.7	1051.6	1055.0	1059.5	1056.1
135°	1095.2	1101.9	1106.3	1109.7	1106.3
137.5°	1139.8	1148.8	1151.0	1156.6	1154.3
140°	1184.5	1191.2	1194.5	1199.0	1196.8
142.5°	1225.8	1232.5	1235.8	1239.2	1235.8
145°	1263.8	1271.6	1273.8	1276.0	1276.0
147.5°	1300.6	1306.2	1308.4	1310.6	1305.1
150°	1334.1	1337.4	1339.7	1341.9	1338.6
152.5°	1364.2	1365.3	1366.5	1370.9	1365.3
155°	1392.1	1389.9	1391.0	1396.6	1389.9
157.5°	1414.5	1414.5	1413.4	1420.1	1411.1
160°	1434.6	1433.4	1432.3	1439.0	1431.2
162.5°	1453.5	1450.2	1449.1	1456.9	1450.2
165°	1468.1	1464.7	1463.6	1472.5	1464.7
167.5°	1480.3	1475.9	1475.9	1484.8	1475.9
170°	1490.4	1485.9	1485.9	1494.8	1485.9
172.5°	1497.1	1491.5	1492.6	1501.5	1491.5
175°	1502.7	1497.1	1498.2	1506.0	1497.1
177.5°	1504.9	1499.3	1500.4	1509.4	1498.2
180°	1502.7	1502.7	1502.7	1502.7	1502.7

(END OF REPORT)